Subject Index

dignosis of, 372 transfer of, 289-291 Acantholysis, drug-induced, 560 extracutaneous manifestations, 370-Allergic contact dermatitis, 468 experimental, 507-513 371 red face from, in domestic animals, biochemical, 507, 509 features and courses, case histories 206-207 illustrating, 371-372 enzyme activation-provoked, 509-Allergic reactions, on face, 289-291 geographic variations of, 354-355 510 Allergy. See also Drug eruptions; Drug histopathologic patterns of, 385-392 reactions; specific type of allergy enzyme inhibition-provoked, 510historical background of, 369 511 concept of, 438 immunologic, 508. 509 laboratory findings, 372 urticaria and angioedema and, 567-568 neuropathy associated with, 396-397 Alopecia, 239 thiol-provoked, 507-509 prekeratinic, 511 provocative factors, 372 Amoxicillin, for Lyme borreliosis, 424 Acantholytic cells, in pemphigus therapy for, 373 Ampicillin foliaceus-like drug eruptions, in joint and bone abnormalities for bullous pemphigoid, 518 animals, 571 associated with, 403 bullous pemphigoid induced by, 515 Acanthosis nigricans, 4f Acrokeratosis paraneoplastica. See Bazex' for rosacea, 230, 231 Amyloid deposits, in lichen amyloidosis, clinical manifestations of, 21-22 syndrome Acrolein, 536 in dogs, 18 endocrinopathies associated with, 14, Acromegaly, 53 Amyloidosis, 33-36 Actinic dermatitis clinical manifestations of, 33-34 histopathology of, 22 bullous pehphigoid and, 517 differential diagnosis, 35 history of, 21 chronic, 297-305 histopathology of, 34-35 incidence of, 21 association with contact dermatitis, incidence of, 33 299 laboratory findings in, 35 malignancies associated with, 22-23, 24 pathogenesis of, 23-24 diagnosis of, 299-300 lichen, 5f treatment of, 24 differential diagnosis of, 300-301 pathogenesis of, 35 Acne, in domestic animals, 204 features of, 297-298 primary, 33 history of, 297 Acne aestivalis, 287 secondary, 33 Acneiform eruptions, drug-induced, 541, management of, 302-303 treatment of, 35-36 pathogenesis of, 301-302 veterinary, 18 predisposing factors, 298 Acquired immunodeficiency syndrome Analgesics, allergy to, 473 (AIDS). See also HIV-positive Actinic reticuloid syndrome, 297 Anaphylaxis. See Allergy Anesthetics, local, sensitizing, 473 Adenocarcinoma, pulmonary, palmar patients acquired icthyosis associated with, 27 dermatoglyphics associated with, Angiitis, granulomatous, of the central medications for, red face from, 316 nervous system, paraneoplastic, toxic epidermal necrolysis in, 495, 496 Age, as risk factor for malignancy in myositis, 62 Angina bullosa haemorrhagia, drug-Acrodermatitis, borrelial, treatment of, Agranulocytosis, drug-iduced, 453, 454 induced, oral, 549, 549f Acrodermatitis chronica arthropathica, AIDS. See Acquired immunodeficiency Angioedema, drug-induced, in animals, syndrome 410 Airborne contact dermatitis, 289 Animals. See also Veterinary dermatology Acrodermatitis chronica atrophicans Borrelia burgdorferi-related, 331, 333fbullous drug eruptions in, 567-574, See flushing reactions provoked by, 219also Bullous drug eruptions 334, 364, 369-375 Antibiotics. See also specific agent; specific clinical, histologic, and serologic 220 type of antibiotic course after therapy, 373-374 red face from, 317 for erysipelas, 311, 312 clinical features of, 369-370 Allergens erythema multiforme and Stevensdifferential diagnosis, 372-373 facial, 291-294

Johnson syndrome induced by, 442, 442t, 553, 553f fixed drug eruptions from, 443, 444t, 463 for Lyme borreliosis, 423-424 animal studies on, 425 clinical trials on, 426-428 tissue penetration by, 424 in vitro senstivity to, 424-425 pemphigus from, 444, 444t sensitizing, 471, 472t for toxic epidermal necrolysis, 497 toxic epidermal necrolysis induced by, 443t, 496 in children, 552, 552f Antibodies. See Autoantibodies; specific antibody Anticoagulation, for toxic epidermal necrolysis, 497 Anticonvulsants erythema multiforme and Stevens-Johnson syndrome induced by, 442t in children, 553 toxic epidermal necrolysis induced by, 443t, 496 in children, 552 Antidesmoglein monoclonal antibody, 562 Anti-DNase B titers, in erysipelas, 309 **Antihistamines** for atopic dermatitis, 239-240 contact dermatitis from, 468 sensitizing, 473 Anti-inflammatory agents. See also Nonsteroidal anti-inflammatory agents allergy to, 473 Anti-intercellular substance antibodies, in vesiculobullous drug eruptions, Antimalarials, for cutaneous lupus erythematosus, 258 Antimicrobial therapy for acrodermatitis chronica atrophicans, 387 for atopic dermatitis, 239 Antimycotic drugs, sensitizing, 471, 472 Antinuclear antibodies, in dermatomyositis, 266 Antiviral agents, allergy to, 473 Arteritis, temporal, paraneoplastic, 181 Arthralgias, Lyme borreliosis-related, 402 Arthritis. See also Rheumatoid arthritis Lyme borreliosis-related, 401 antigen-induced, 417 chronic, 402-403 clinical features of, 402, 403 intermittent, 402 treatment of, 428 Arthrodermatitis, 401 Articular disease, dermatomyositisrelated, 265

ASO, in erysipelas, 309 Atopic dermatitis, 192f, 235-242 aggravating factors in, 240-241 associated disorders, 238-239 diagnosis of, 237-238 differential, 238 epidemiology of, 236 etiology of, 235-236 facial signs associated with, 236t, 236historical aspects, 235 prognosis of, 241 treatment of, 239-240 Atopy, in domestic animals, 206 Autoantibodies cicatricial pemphigus induced and, 524 role in correlation of bullous pemphigoid with malignancy, 48 in vesiculobullous drug eruptions, detection of, 558, 559 Autodromic sensorineural flushing, 216 Autoimmune diseases bullous, drug-induced, 558, 561 in Lyme borreliosis, 417-420 in thiol-induced pemphigus, 509 veterinary, 18 Autonomic neural-mediated flushing, 216 Avian hosts, for loxides ricinus and Ixodes persulcatus, 344t-347t, 347, 348 Azathioprine, for dermatomyositis, 269 B-cell, in bullous pemphigoid, 518 B-cell lymphomas, cutaneous, 324, 325 Baanwarth's syndrome, 353 neurologic manifestations of, 393, 394-395 Bacterial diseases, red face from, in domestic animals, 203-204 Bacteriologic tests, in erysipelas, 309 **Barbiturates** fixed drug eruptions from, 444t, 462, 463 porphyria cutanea tarda induced by, Basement membrane bullous pemphigoid and, 518, 522, 524 staining, in vesiculobullous drug eruptions, 560 Bazex' syndrome, 5f, 37-42 associated malignancy, 39 clinical manifestations of, 37-38 differential diagnosis, 39-40 histopathology of, 38-39 history of, 37 incidence of, 37 laboratory findings in, 39 pathogenesis of, 40

treatment of, 40

allergy to, 473t

Benzoyl peroxide

for seborrheic dermatitis, 249 Biochemical studies, in bullous pemphigoid, 518 Blistering eruptions, drug-related. See Bullous drug eruptions Bloom's syndrome, 279 Bone abnormalities, associated with Lyme borreliosis, 403 Boophilus, 336 Borrelia anserina, 339 Borrelia burgdorferi, 329-330, 339 animal reservoirs for, 342 antigenic diversity of, 342-343 antigens, detection of, 408, 409, 410, 411 clinical manifestations attributed to, 329-330, 353-354, See also Lyme borreliosis discovery of, 335-338 geographic variations of, 354-355 horizontal transmission of, 339 immunopathogenesis of, 415-422 incidence and epidemiology of, 355-356 laboratory diagnostic methods for, 407-414 direct methods, 407-408 indirect methods, 408-412 laboratory findings, 330 localization of, in skin, 381-382 role in lymphocytomas and sclerotic skin lesions, 363-367, See also Lymphocytoma; Sclerosis serum antibodies to, 393 specific immune response, 408-409 spirochetes, 339 staining methods, 378-381 tick vectors for, 343-348 treatment of, 330 vertical transmission of, 342 Borrelia duttonii, 335-336 Borrelia garinii sp. nov22, 354 Borrelia hermsii, 337 Borrelia theileri, 336 Bowen's disease, 5f, 43-46 associated malignancy, 44-45 clinical manifestation of, 43 etiology of, 44 histopathology of, 43-44 therapy for, 44 Bromides, 542 Bullous drug eruptions in animals, 567-574 erythema multiforme, 568-570 fixed drug eruptions, 568, 568f lupus erythematosus and vasculopathies, 572 pemphigus foliaceus-like drug eruptions, 571-572 photodermatitis, 572-573 spongiotic or ezcematous eruptions, subepidermal bullous eruption, 570-

571, 571f

toxic epidermal necrolysis, 570, 570f urticaria, angioedema, and anaphylaxis, 567-568 commentary on, 433-435 contact dermatitis. See Contact dermatitis drug overdose-related, 444 epidemiology of, 441-446 fixed, 461-466 in children, 551, 552f clinical features of, 461-462, 462t diagnosis of, 463-464 epidemiology of, 461 etiology of, 443, 444t, 462-463, 463t histopathology of, 462 immunofluorescence studies on, 559, 560 pathogenesis of, 463 therapy for, 464 historical aspects of, 437-439 immunogenetics of, 449-460 in agranulocytosis, 453, 454 in epidermolysis bullous acquisita, in erythema multiforme/Stevens-Johnson syndrome, 455 HLA and disease associations, 449-450, 452-453 in linear IgA bullous dermatosis, in mucositis, 453 in myasthenia gravis, 453 in pemphigoid, 454-455 in pemphigus, 454, 454t proposed hypothesis for, 450-452 in systemic lupus erythematosus, in systemic sclerosis, 453 in toxic epidermal necrolysis, 455 oral, 545-550, See also Oral lesions, drug-induced blistering pemphigus. See Bullous pemphigus porphyria. See Porphyria toxic epidermal necrolysis. See Toxic epidermal necrolysis vesiculobullous, in children, 551-554 Bullous pemphigoid, 47-52 correlation with malignancy, role of the presence of autoantibody in, drug-induced, 454, 515-520 cicatricial. See Cicatricial pemphigoid differential diagnosis of, 517, 517t electron-beam treatment-related, human immunodeficiency virus and, 516-517 from ibuprofen, 516 inducers of, 516t, 519

interleukin-2 and, 516

oral, 548, 549

pathogenesis and new research on, in patients taking multiple drugs, from penicillins, 515-516 treatment of, 518 unusual problems in, 517 history of, 47-48 Bullous pemphigoid-like drug eruption. See Subepidermal diseases, bullous, drug-induced Bullous pemphigus, 113-117 drug-induced, 434, 444, 444t. See also Bullous pemphigoid in children, 554, 555 versus drug-triggered pemphigus, histopathologic criteria for diagnosis of, 558 historical aspects of, 438 idiopathic, 507 immunofluorescence techniques for diagnosis of, 560 immunogenetics of, 454, 454t ocular cicatricial and pseudo-ocular cicatrical, 454-455 oral, 546t, 547, 548f pathomechanisms and experimental investigations, 507-513, See also Acantholysis from penicillamine and thiol drugs, 501, 502t from penicillin, 501, 502 relationship with genetic predisposition and exogenous, provoking factors, 503-504 survey on, 501-505 Burns, 285-286 first degree, 194f Busulfan, 536 Calcinosis, dermatomyositis-related, 266 Cantharidin-induced acantholysis, 509, 510 Captopril acantholysis-induced by, 510 bullous pemphigus induced by, 509, 510f oral, 548 Cardiac disease, dermatomyositisrelated, 266 Cardiovascular drugs

cicatricial pemphigus induced by, 522

Johnson syndrome from, 442t

erythema multiforme and Stevens-

Carditis, borrelial, treatment of, 427

Carmustine (BCNU), for cutaneous

Cefotaxime, for Lyme borreliosis, 424

Ceftriaxone, for Lyme borreliosis, 424

Celiac disease, dermatitis herpetiformis

lymphoma, 325

asociated with, 48-50 Cellular immune mechanisms, of Lyme borreliosis, 415-416 Cellulitis bacterial, 310, 311 juvenile, in domestic animals, 209 Central nervous system drugs acting on, erythema multiforme and Stevens-Johnson syndrome from, 442t granulomatous angiitis of, paraneoplastic, 180 Lyme disease, 417 Cephalosporins for Lyme borreliosis, 427 pemphigus from, 502 Cerebrospinal fluid in Baanwarth's syndrome, 394-395 Borrelia burgdorferi-specific antibodies in, 411 Chemicals, red face from, 315 Chemotherapeutics, sensitizing, 471 Chilblains, 286 Children facial palsy and meningitis in, in Lyme borreliosis, 395 seborrheic dermatitis in, 249 vesiculobullous drug eruptions in, 551-554. See also Vesiculobullous drug eruptions Chinese restaurant syndrome, flushing in, 220 Chloramphenicol, for rosacea, 231 Churg-Strauss syndrome, paraneoplastic, Cicatricial pemphigoid, drug-induced, 521-525 oral, 548 Circulating vasodilator flushing, 216-217 Climate, seborrheic dermatitis related to, Clonidine (Catapres), cicatricial pemphigus induced by, 522 Clubbing. See Digital clubbing Cockayne syndrome, 279 Cold injury chilblains, 286 frostbite, 286 urticaria, 286 Collagen bundles, atrophy of in acrodermatitis chronica atrophicans, 391-392 Complementation groups, in xeroderma pigmentosum, 278 Congenital defects, red face from, in domestic animals, 208 Contact dermatitis airborne, 289 association of chronic actinic dermatitis with, 299

medicament, 467-478

clinical patterns of, 467-469

cross-sensitization in, 470, 470t factors favoring development of, occupational, 469, 470 sensitizers, 471-473 sites and dermatoses at risk, 469, 469t systemic, 470-471 red face related to, 195f, 289-295 in domestic animals, 206-207 systemic, 195f Corticosteroids allergy to, 473 for atopic dermatitis, 239 for cutaneous lupus erythematosus, for dermatomyositis, 269 reactions to, 441 pustular, 541 for toxic epidermal necrolysis, 498 Coxiella burnetii, 335, 337 Cranial nerve, in Baanwarth's syndrome, Cremophor EL, 316 Cutaneous paraneoplastic syndromes. See Paraneoplastic syndromes Cutis laxa, 34 Cyclophosphamide for dermatomyositis, 269 porphyria cutanea tarda induced by, 536-537 Cyclosporine, red face from, 315-316 Cyproterone acetate, for rosacea, 230, 231 Cysteine, 507, 508 Cytokine production, in Lyme borreliosis, 416 D Dapsone, 531, 538 Deer tick, 336-337. See also Lyme borreliosis; specific genus

Demodex canis, 205 Demodicosis, 205 Dermabrasion, redness and crusting resulting from, 195f Dermacentor rugosicauda, 337 Dermacentor variabilis, 336, 337 Dermal-epidermal junction, deposits at, in discoid lupus erythematosus, 253-254 Dermatitis herpetiformis, 48-50 malignancies occurring in, 50 lymphoma, 49-50 role of gluten-free diet in, 50 Dermatofibrosis, nodular, in dog, 4f, 17 Dermatoglyphics, palmar, 10f Dermatomyositis, 5f-6f, 61-65, 193f canine, 18 clinical manifestations of, 262-265 course and therapy of, 269-270 definition and classification of, 261 diagnosis and therapy of, 61-62

etiology and pathogenesis of, 261-262 evaluation of patient with, 268-269 malignancy in, 267-268 age as risk factor for, 63 clinical and laboratory correlates in, evaluation for, 63-64 frequency of, 62 interrelationship of, 62-63 sites and types of, 63 red face from, 261-273 in domestic animals, 208 serologic testing in, 266-267 systemic manifestations of, 265-267 Dermatopathologic techniques, diagnosis of vesiculobullous drug eruptions through, 557-565. See also under Vesiculobullous drug eruptions **Dermatoses** associated with erythroderma, 69 red face related to false-positive tests in, 256t Dermis, acrodermatitis chronica atrophicans histopathology in, 385-387, 390, 391 DeSanctis-Cacchione syndrome, 277 Diabetes mellitus, red face related to, 317 Diclofenac, linear IgA disease induced by, 531 Diet atopic dermatitis associated with, 240gluten-free, in dermatitis herpetiformis, 50 Diethylcarbamazine, bullous drug eruptions induced by, 568, 568f, Digital clubbing, 53-59 diagnosis of, 54 differential, 54-55 history of, 53-54 incidence of, 55-56 pathogenesis of, 56-57 pathology of, 56 treatment of, 57 Dipetalonema (Wehrdickmansia) rugosicauda, 337 Dog, cutaneous paraneoplastic syndromes in, 17-18 metabolic necrolytic dermatitis in, 4f,

15-16

Doxycycline

Drug eruptions

Drug reactions

phototoxic, 196f

nodular dermatofibrosis in, 4f, 17

for Lyme borreliosis, 424, 427-428

blistering. See Bullous drug eruptions

for acrodermatitis chronica

cutaneous porphyria, 535-539

dermatomyositis linked to, 267-268

atrophicans, 373

erythroderma related to, 69 patients at risk for, 441 pustular, 541-543. See also Pustular drug reactions red face, 315, 316-318 in domestic animals, 208 seborrheic dermatitis, 247 Dwarfism, 279 E Elastase, 509, 510 Electron beam radiotherapy bullous pemphigoid induced by, 516 for cutaneous lymphoma, 325 ELISA, in Lyme serology, 410 Emotions, atopic dermatitis associated with, 240 Enalapril acantholysis induced by, 510 pemphigus induced by, 504 Encephalopathies, in Lyme borreliosis, 395, 396 **Endocrine aspects** associated with acanthosis nigricans, 23, 24 of seborrheic dermatitis, 247 Endocrine tumors, cutaneous signs of, 18 Environmental diseases, red face from, in domestic animals, 209 Enzyme activation, acanthylysis provoked by, 509-510 inhibition, acanthylysis provoked by, 510, 511 Eosinphilic granuloma complex, red face from, in domestic animals, 207 Eosinphilic spongiosis, 558, 560f Epidemics, erythromyalgia, 76 Epidermal necrolysis disseminated, 493 toxic. See Toxic epidermal necrolysis Epidermis, acrodermatitis chronica atrophicans histopathology in, 385, 389-390 Epidermolysis bullosa, acquired, druginduced, 525-526 Epidermolysis bullosa acquisita, druginduced, 558 immunoelectron microscopy of, 561, 562 immunogenetics of, 455 Erysipelas, 196f, 307-313 clinical data on, 307-308 diagnosis of, 308-311 epidemiology of, 311 therapy for, 311-313 Erythema in dermatomyositis, 5f

necrolytic migratory (hepatocutaneous

syndrome), 6f

physical, 283-288

in domestic animals, 209

burns, 285-286 frostbite, 286 from mechanical stimuli, 284 pathogenesis of, 283-284 from temperature changes, 284-285 from ultraviolet light, 286-287 from x-rays, 286 reactive, erythema annulare centrifugum and erythema gyratum repens, 8f, 135-139 associated malignancy, 136 clinical manifestations of, 135-136 differential diagnosis of, 137 histopathology of, 136 history of, 135 laboratory findings in, 136-137 pathogenesis of, 137 recommended evaluation of, 137 treatment of, 137 Erythema chronicum migrans, 353. See also Erythema migrans background of, 359-360 Erythema exudativum multiforme, 479 Erythema migrans, 359-362 background of, 359-360 Borrelia burgdorferi-related histopathologic patterns of, 377-383 treatment of, 426 clinical considerations, 360 cutaneous signs and symptoms, 361 differential diagnosis, 361 Lyme borreliosis-related, 330, 331, 332f-333f nomenclature for, 353 Erythema migrans borreliosis. See also Erythema migrans, 353 Erythema multiforme drug-induced, 434, 442-443 in animals, 568-570 in children, 553-554 diagnosis of, histopathologic criteria for, 557 immunofluorescence studies on, 559, 560 immunogenetics of, 455 oral, 545, 546t, 547f separation from toxic epidermal necrolysis, 493-494 epidemiology of, 442 minus and maius, drug intake and, 479-490 clinical manifesatations of, 480-481 diagnostic criteria, 481 etiology of, 481-483t histopathology of, 481 incidence and epidemiology, 479-480 pathogenesis of, 483-486 Erythroderma (exfoliative dermatitis), 67associated malignancy, 68-69 clinical manifestations of, 67 definition of, 67

differential diagnosis, 69-70 histopathology of, 67-68 incidence of, 67 laboratory findings in, 69 pathogenesis of, 71 treatment of, 70 Erythromelalgia, 73-82 adult-onset, 76-77 associated conditions, 75t classification and features of, 74t early-onset, 74, 76 epidemic, 76 history of, 73 incidence of, 74 nomenclature for, 73-74 paraneoplastic, 77-79 pathogenesis of, 75t treatment of, 75t Erythromycin red face from, 315 for rosacea, 230, 231 Erythropoietic protoporphyria, 194f Esophageal disease, dermatomyositisrelated, 265, 270 Estrogens, porphyria cutanea tarda induced by, 537 Etretinate, 542 Exanthematic necrolysis, 492, 493 Exfoliative dermatitis. See Erythroderma Eyelids, heliotrope rash, in dermatomyositis, 5f Ezcematous eruptions, drug-induced, 467-478 in animals, 572

Facial palsy, in Lyme borreliosis, 395 Fansidar, ocular cicatricial pemphigus induced by, 523 **Fasciitis** eosinphilic, 404 in Lyme borreliosis, 403-404 Fat tissue, subcutaneous, acrodermatitis chronica atrophicans histopathology in, 385-387 Females, toxic epidermal necrolysis in, Fingers, clubbing of. See Digital clubbing Florid cutaneous papillomatosis. See Papillomatosis, florid cutaneous 5-Fluorouracil, red face from, 317 Flushing disorders, 211-223 alcohol-provoked, 219-220 autodromic sensorineural, 216 autonomic neural-mediated, 212-216 causes of, 315-316 circulating vasodilator, 216-217 fallacious, 220 management of, 220-221 restautant reactions, 217-219

Fold pyoderma (intertrigo), in domestic

animals, 203

Follicular eruptions, drug-induced, 541, Follicular plugging, in Bazex' syndrome, Food allergy, red face from, in domestic animals, 206 Frostbite, 286 Fungal diseases, red face from, in domestic animals, 205 Furosemide, acquired epidermolysis bullosa induced by, 526 Gangrene, in Trousseau's syndrome, 10f Garin-Bujadoux-Baanwarth syndrome. See Baanwarth's syndrome Gene rearrangement analysis, in cutaneous lymphomas, 324 Genetics acantholysis and, 511 Bloom's syndrome and, 279 Cockayne syndrome and, 279 congenital erythropoietic porphyria Günther and, 280 drug-induced pemphigus development and, 503-504, 507 erythropoietic protoporphyria and, 279-280 Hartnup disease and, 280-281 red face and, in domestic animals, 208 seborrheic dermatitis related to, 246 xeroderma pigmentosum and, 277-278 Giant cells, in multicentric reticulohistiocytosis, 7f Glucagonoma syndrome, 93-97 clinical manifestations of, 93 diagnosis of, 93-95 prognosis of, 95 treatment of, 95 γ-Glutamyl transpeptidase (GCT), inhibition, acantholysis provoked by, 510, 511 Gold salts, toxicity induced by, 452, 453 Gottron's papules, in dermatomyositis, 5f Gottron's sign, in dermatomyositis, 262-Granuloma complex, eosinphilic, red face from, in domestic animals, 207 Granulomatous angiitis, paraneoplastic, of the central nervous system,, 180

H Hair in hypertrichosis lanuginosa acquisita, 6f, 7f Hairy cell leukemia, polyarteritis nodosa associated with, 10f Halogen, pustular reactions induced by, 542 Halogenoderma, 542 Hartnup disease, 280-281

Griseofulvin, porphyria cutanea tarda

induced by, 537

Heliotrope eruptions, in dermatomyositis, 5f, 262, 264 Heme, porphyria and, 535, 536 Henoch-Schonlein purpura, paraneoplastic, 181 Hepatic porphyria, drugs inducing, 535-536 Hepatocutaneous syndrome, red face from, in domestic animals, 209 Herpesvirus, in erythema multiforme, 484, 485 Hexachlorobenzene, porphyria cutanea tarda induced by, 537 Hippocratic fingers. See Digital clubbing HIV-positive patients bullous pemphigoid in, 516-517 drug reactions in, 441 HLA in chemical and drug-induced systemic sclerosis, 453 in drug-induced agranulocytosis, 453, in drug-induced myasthenia gravis, 453 in drug-induced myositis, 453 in drug-induced pemphigoid, 454-455 in drug-induced pemphigus, 454, 454t in drug-induced systemic erythematosus, 453 in drug-induced toxic epidermal necrolysis, 455 in drug-induced toxicity in rheumatoid arthritis, 452-453 in linear IGA bullous dermatosis, 455 in Lyme arthritis, 403 in toxic epidermal necrolysis, 496 typing in pemphigus, 503 HLA region, drug-induced bullous disease and, 449-450, 451 Hodgkin's disease acquired icthyosis associated with, 27 Hydrocarbons, chlorinated aromatic, porphyria cutanea tarda induced by, 537 Hyperpigmentation, in Bazex' syndrome, Hyperproliferative theory, seborrheic dermatitis related to, 248 Hypertrichosis lanuginosa acquisita, 6f-7f, 99-106 associated malignancy, 99-103t clinical manifestations of, 99 differential diagnosis, 104 histopathology of, 100 history of, 99 incidence of, 99 laboratory findings in, 104 pathogenesis of, 104 recommended evaluation of, 104-105 treatment of, 104 Hypertrophic osteoarthropathy, 53-55 diagnosis of, 54 differential, 54-55

history of, 53-54 incidence of, 55-56 pathogenesis of, 57-58 pathology of, 56 treatment of, 57 Ibuprofen, bullous pemphigoid induced by, 516 Icthyosis, acquired, 4f, 27-29 associated disease, 27-29 clinical manifestations, 27 differential diagnosis, 28 history of, 27 incidence of, 27 Idiopathic disorders, erythroderma related to, 70 IgA bullous dermatoses, linear, druginduced, 444, 529-523, 558 of adults, relationship of drug to, 531-532 clinical presentation of, 529, 531, 531f diagnosis of, 529 immunogenetics of, 455 pathologic features of, 532 prognosis of, 532-533 in acquired epidermolysis bullosa, 525, 526 in bullous pemphigoid, 518 in vesiculobullous drug eruptions, 560, IgM Borrelia burgdorferi-specific, 410 in bullous drug eruptions, 559 Immune complexes Borrelia burgdorferi-specific, 411 in bullous drug eruptions, 450-452 in erythema multiforme, 483-486 in Lyme borreliosis, 416 Immune response to Borrelia burgdorferi, 408-409 in thiol-induced acantholysis, 509 Immunoelectron microscopy, for diagnosis of vesiculobullous drug eruptions, 559, 561-562 Immunofluorescence techniques in cicatricial pemphigoid, 521, 522 for diagnosis and classification of vesiculobullous drug eruptions, 559, 560-561, 562f Immunogenetics of bullous drug eruptions, 449-460. See also under **Bullous drug eruptions**

Immunoglobulin-A disease, drug-

Immunohistologic studies, in toxic

epidermal necrolysis, 496

Immunohistochemical techniques for

Borrelia burgdorferi staining, 379-

induced, 434

Immunologic factors

in bullous pemphigoid, 518 red face related to in domestic animals, 205-208 in lupus erythematosus, 257-258 in seborrheic dermatitis, 247 Immunologically mediated bullous diseases, diagnosis and classification of, 558, 559-563 Immunopathogenesis, of Lyme borreliosis, 415-422 Immunophenotyping, in cutaneous lymphomas, 323-324 Immunoreactants, detection of, 558 Immunosuppressive agents, for dermatomyositis, 269-270 Indomethacin, cicatricial pemphigus induced by, 524 Infection erysipelas, 307-313 in toxic epidermal necrolysis, 497 Insulin resistance, acanthosis nigricans associated with, 23-24 Interferon α, for cutaneous lymphoma, 326 pustular psoriasis induced by, 542 Interleukin-1 (IL-1), 416 Interleukin-2, in bullous pemphigoid, 516, 518 Interleukin-2 receptor, cicatricial pemphigus induced and, 524, 525 Intertrigo. See Fold pyoderma Iododerma, 542 Irritant, atopic dermatitis associated with, 240 Irritant contact dermatitis, 467, 468, 468t Isoniazid, pustular reactions induced by, Isotretinoin for rosacea, 230, 231 for seborrheic dermatitis, 249 Ixodes dammini, 336, 337, 338, 342 geographic distribution of, 343 host animals for, 343, 347, 348 life and seasonal cycles of, 343 prevelance of, 348 Ixodes identatus, 342 Ixodes neotamae, 342 Ixodes pacificus, 338, 342 geographic distribution of, 343 host animals for, 343, 347, 348 life and seasonal cycles of, 343 prevelance of, 348 1xodes persulcatus, 329, 342 avian hosts for, 344t-347t host animals for, 343, 347, 348 mammalian hosts for, 340t-342t reptilian hosts for, 347t Ixodes ricinus, 329, 336, 337, 338 avian hosts for, 344t-347t geographic distribution of, 343 host animals for, 343, 347, 348

life and seasonal cycles of, 343

mammalian hosts for, 340t-342t reptilian hosts for, 347t transmission of *Borrelia burgdorferi* by, 343

J
Jo-1 antibody, in dermatomyositis, 267
Joint manifestations in Lyme borreliosis,
401-406
clinical features of, 402-404
diagnosis and differential diagnosis,
404
incidence of, 401-402

K
Keratinase, 510
Keratinocyte
in erythema multiforme, 485
role in erythema, 283, 284f
Keratinocyte transglutaminase (KGT),
inhibition, acantholysis provoked
by, 510
Keratosis pilaris, 238
Ketoconazole, for seborrheic dermatitis,
249, 250

L La antibodies, in facial lupus erythematosus lesions, 257-258 Leukemia pyoderma gangrenosum associated with, 130-131' T-cell, cutaneous, 322, 323, 325-326 Leukocytoclastic vasculitis, cutaneous, 178, 179 Lichen amyloidosis, 5f Lichen sclerosus et atrophicus, 365 Light microscopy, diagnosis of vesiculobullous drug eruptions through, 557 Lithium carbonate linear IgA disease induced by, 531 pustular reactions induced by, 541, 542 Lung disease, dermatomyositis-related, 265-266, 270 Lupus erythematosus anetoderma (elastolytic lupus erythematosus), 255 chillblain, 255 discoid, red face related to, 192f, 253in domestic animals, 208 variants of, 254-255 drug-associated, in animals, 572

etiopathogenesis of, 257-258

edematous, 254

hypertrophic, 254-255

panniculitis, 255-256

subacute, 256-257

systemic

facial, 253-260

drug-induced, 453 red face related to, 193f, 208, 256 treatment of, 258 tumidus, 254 verrucous, 254-255 Lyell's syndrome. See Toxic epidermal necrolysis Lyme arthritis, 353 Lyme borreliosis, 329-330, 353-357 clinical course and classification of, 353-354 clinical manifestations of, 329-330 cutaneous manifestations of, 360. See also Erythema migrans; Lyme definition of, 423 epizootiology of Borrelia causing, 339geographic variations of, 354-355 immunopathogenesis of, 415-422 incidence and epidemiology of, 355laboratory diagnosis in, 330, 407-414 neurologic manifestations of, 393-400 rheumatic manifestations of, 401-406. See also under Joint manifestations therapeutic aspects of, 423-429. See also Antibiotics, 330 Lyme disease, 353 Lymphadenosis benigna cutis. See Lymphocytoma, borrelial Lymphocytic meningoradiculitis, 353 Lymphocytoma, borrelial, 331, 333f, 363-364 clinical manifestations, 363-364 diagnosis and differential diagnosis, 364 epidemiology, 363 geographic variations of, 354-355 histopathologic patterns of, 364, 377historical aspects, 363 treatment of, 264, 427, 428 Lymphoma acquired icthyosis associated with, 27 cutaneous, 319-328 acute T-cell, 322-323, 325 B-cell, 325 clinical features of, 320-323 diagnosis of, 323-324 epidemiology and etiology of, 319 epidermotropic, 320-321 nonepidermotropic, 322, 323 Pagetoid reticulosis, 322 staging and prognosis of, 324-325 treatment of, 325-326 variants of, 321 extracutaneous, 321-322 paraneoplastic pemphigus and, 8f pyoderma gangrenosum associated

with, 131

red face related to, 196f

M Macrolides, for Lyme borreliosis, 424 Major histocompatibility complex (MHC), drug-induced bullous disease and, 449, 450 Malignancy. See also specific neoplasm dermatomyositis and, 261, 267-268 hypertrichosis lanuginosa acquisita associated with, 7f internal, cutaneous manifestations of. See Paraneoplastic syndrome, cutaneous seborrheic dermatitis related to, 247 Malignant melanoma, bullae in, 518 Malpighian epithelia, morphologic changes in. See Acantholysis Mange notoedric, 204 otodectic, 205 sarcoptic, 204 Mechanical stimuli, erythema caused by, 284 Mechlorethamine, for cutaneous lymphoma, 325 Meningitis, in Lyme borreliosis, 395 Meningoradiculitis, lymphocytic, 353 Metabolic aspects, of seborrheic dermatitis, 247 Metabolic necrolytic dermititis, 4f Metals, erythema multiforme and Stevens-Johnson syndrome from, Methotrexate, 441 for dermatomyositis, 269 Metronidazole, for rosacea, 230, 231 Mice, Borrelia burgdorferi in, 342 Microbial theories, seborrheic dermatitis related to, 248 Microscopy. See also specific type of microscopy for Borrelia burgdorferi detection, 407 Microtus pennsylvanicus, 336 Migratory erythema, necrolytic, 6f Moisturizing, for atopic dermatitis, 239 Monoclonal antibodies Borrelia burgdorferi staining and, 379, in cutaneous lymphomas, 323, 325 immunolabeling of, in vesiculobullous drug eruptions, 562, 563 Monosodium glutamate (MSG), flushing reaction induced by, 220 Morphea, 365 Mucocutaneous syndrome, 493 Mucous membranes, involvement in toxic epidermal necrolysis, 494, Multicentric reticulohistiocytosis. See Reticulohistiocytosis, multicentric disease, dermatomyositis-related, 264-

microvasculitis, paraneoplastic, 180 Myasthenia gravis, drug-induced, 453 Mycobacterium tuberculosis, 418 Mycoplasma pneumoniae, 496, 553 Mycosis fungoides, 320-321 treatment of, 325 Myelodysplastic syndromes, pyoderma gangrenosum associated with, 131 Myelofibrosis, pyoderma gangrenosum associated with, 131 multiple, amyloidosis associated with, 33, 34

Myeloproliferative disease, pyoderma gangrenosum associated with, 131 Myositis. See also Dermatomyositis drug-induced, 453 focal, in Baanwarth's syndrome, 394

pyoderma gangrenosum associated

in Lyme borreliosis, 403

with, 131

Nailfold, in dermatomyositis, 263, 264 Nalidixic acid, 538 Nasal pyoderma, in domestic animals, 203-204 Nasal tip, follicular plugging and

hyperpigmentation, in Bazex' syndrome, 5f

Neck

acanthosis nigricans, 4f poikiloderma, in dermatomyositis, 6f Necrolytic dermatitis, metabolic, canine, 4f, 15-16

Necrolytic migratory erythema (hepatocutaneous syndrome), in domestic animals, 209

Nephropathy, dermatomyositis-related, 266

Nerve, microvasculitis, paraneoplastic, 180

Neuroborreliosis, 404 treatment of, 427-428 Neurologic aspects

of Lyme borreliosis, 393-400 of seborrheic dermatitis, 247

Neuropathy, Lyme borreliosis-related,

Neuropsychiatric aspects, of seborrheic dermatitis, 247

Nodular dermatofibrosis, in dogs, 4f, 17 **Nodules**

fibrous, associated with acrodermatitis chronica atrophicans, 387-388, 392 of multicentric reticulohistiocytosis, 7f Nonsteroidal anti-inflammatory agents cicatricial pemphigus induced by, 522 erythema multiforme and Stevens-Johnson syndrome induced by, 442t in children, 553

toxic epidermal necrolysis induced by, 443t, 496

in children, 552

Nutritional aspects, of seborrheic dermatitis, 247

Nutritional diseases, red face from, in domestic animals, 209

Obesity, acanthosis nigricans associated with, 23 Occupational drug dermatitis, 469, 470 Ocular lesions, drug-induced cicatricial pemphigoid, 454-455, 516,

toxic epidermal necrolysis, 498

Onchocerciasis, 205 Oral lesions, drug-induced blistering, 545-550

angina bullosa haemorrhagica, 549,

drugs implicated in, 546t erythema multiforme, 545, 546t, 547 pemphigus, 546t, 547, 548, 548f, 549 Stevens-Johnson syndrome, 546, 546t,

stomatitis medicamentosa, 546t, 547, 548f

toxic epidermal necrolysis, 546, 546t, 547, 547f

Ornithoderos, 336 Ornithoderos hermsi, 336

Ornithoderos parkeri, 336

Ornithoderos turicata, 336 Ornithodoros moubata, 335

Orthovoltage radiation, for cutaneous lymphoma, 326

Osteoarthropathy, hypertrophic, 53-55. See also Hypertrophic osteoarthropathy

Pachydermoperiostosis, 53 Paget's disease, extramammary, 6f, 83-87 asociated malignancy, 84-85 clinical manifestations of, 83-84 differential diagnosis, 85 histopathology of, 84 history of, 83 incidence of, 83 laboratory findings, 85 treatment of, 85-86 Pain, in Baanwarth's syndrome, 394 Palliative therapy, for glucagonoma syndrome, 95 Palmar dermatoglyphics, associated with pulmonary adenocarcinoma, 10f Palms, tripe, cancer and, 165-173 associated malignancies, 167-169, 170t clinical manifestations of, 166-167 differential diagnosis, 169, 170 histopathology of, 167

history of, 165 incidence of, 165-166 pathogenesis of, 171 recommended evaluation of, 171 treatment of, 170 Pancreatic tumors

island cells, glucagonoma syndrome from. See Glucagonoma syndrome superficial migratory

thrombophlebitis with, 9f

Papain, 509

Papillomatosis, florid cutaneous, 89-91 asociated malignancy, 89-90 clinical manifestations, 89 differential diagnosis, 90 histopathology of, 89 history of, 89 incidence of, 89 pathogenesis of, 90-91 treatment of, 90

Paraneoplastic syndromes, cutaneous, 1, 4f-10f

acanthosis nigricans, 21-25 acquired icthyosis and pityriasis rotunda, 27-32

amyloidosis, 33-36

Bazex' syndrome, 37-42

Bowen's disease, 43-46

bullous pemphigoid and dermatitis herpetiformis, 47-52, 517

clubbing and hypertrophic osteoarthropathy, 53-59

definition of, 11-13 dermatomyositis, 61-65

erythroderma and exfoliative dermatitis, 67-72

erythromelalgia, 73-82

florid cutaneous papillomatosis, 89-91 glucagonoma syndrome, 93-97 hypertrichosis lanuginosa acquisita,

99-106

multicentric reticulohistiocytosis, 107-

Paget's disease, extramammary, 83-87 pemphigus, pemphigus vulgaris, and pemphigus foliaceus, 113-117

porphyria cutanea tarda, 119-124

pruritis, 125-128

pyoderma gangrenosum, 129-133 reactive erythemas, erythema annulare

centrifugum and erythemia gyratum repens, 135-139

sign of Leser-Trélat, 141-148 Sweet's syndrome, 149-157

thrombophlebitis and thrombembolic problems of malignancy, 159-163

tripe palms, 165-173 vasculitis, 175-187

veterinary, 15-17

Parasitic diseases, red face from, in domestic animals, 204-205 Paresis, in Baanwarth's syndrome, 394

Pemphigoid. See Bullous pemphigoid Pemphigus bullous. See Bullous pemphigus foliaceus, 8f, 113-114, 192f foliaceus-like drug eruptions, in animals, 571-572 overviews of, 113-114 paraneoplastic, 8f, 115-116 associated malignancies, 115 clinical manifestations of, 115 differential diagnosis, 115-116 laboratory investigations in, 115 red face from, in domestic animals, 207-208 relationship to neoplasms, 114 vulgaris, 113 Penicillamine acantholysis induced by, 507, 508, 509, 510, 510f pemphigus from, 501, 502, 503 **D-Penicillamine** bullous pemphigoid induced by, 515, 516, 518 bullous pemphigus induced by, oral, 548, 548f cicatricial pemphigus induced by, 522 toxicity induced by, 452, 453, 456 Penicillin for acrodermatitis chronica atrophicans, 373 bullous pemphigoid induced by, 515, 516, 519 bullous pemphigus from, 501, 502 for erysipelas, 311, 312 for Lyme borreliosis, 423-424, 425, 426, 427, 428 Periungual telangiectasia, in dermatomyositis, 6f Photodermatitis, 289-290 drug-induced, in animals, 572-573 Photodermatosis, chronic actinic dermatitis, 297-305 Photogenodermatoses, 275-281 Bloom's syndrome, 279 Cockayne syndrome, 279 congenital erythropoietic porphyria (Günther), 280, 280f erythropoietic protoporphyria, 279-280 Hartnup disease, 280-281 xeroderma pigmentosum, 275-279 Photophoresis, for cutaneous lymphoma, 325-326 Phototest, in chronic actinic dermatitis, 300 Pityriasis alba, 238 Pityriasis rotunda, 5f, 29-30 associated diseases, 30 clinical manifestations of, 29 definition of, 29

differential diagnosis, 30

histology of, 29-30-

history of, 29 incidence of, 29 laboratory tests in, 30 pathogenesis of, 30 therapy for, 30 Pityrosporal theory, seborrheic dermatitis related to, 246 Pityrosporon ovale, 239 Plaque, 9f in cutaneous discoid lupus erythematosus, 253 annular atrophic, 255 Plasma cells, in acrodermatitis chronica atrophicans, 390 Plasminogen activator inhibitors, acantholysis and, 510 Poikiloderma, in dermatomyositis, 6f, 263, 264 Polyarteritis nodosa associated with hairy cell leukemia, paraneoplastic, 179-180 Polyclonal antibodies, Borrelia burgdorferi staining and, 379, 380 Polymorphism, drug-induced bullous eruptions and, 449 Polymorphonuclear leukocytes, in pemphigus foliaceus-like drug eruptions, in animals, 571 Porphobilinogen (PBG), 535 Porphyria. See also Pseudoporphyria acute intermittent, 535 congenital erythropoietic (Günther), drug-induced, 443, 535-539, 559 diagnosis of, histopathologic criteria for, 558 hepatic, 535-536 histopathology of, 537-538 drugs unsafe in, 444t Porphyria cutanea tarda, 119-124 associated malignancy, 121-122 clinical manifestations of, 119 differential diagnosis, 121-122 drug and chemical-induced, 535, 536histopathology of, 119-120 incidence of, 119 laboratory findings in, 121 pathogenesis of, 122 treatment of, 122 Porphyria variegate, 535 Preservatives, allergy to, 472-473 Proteinase-antiproteinase system, disturbances, in pemphigus, 510 Protoporphyria, erythropoietic, 194f, 279-Pruritis, malignancy and, 125-128 early history of, 125-126 evaluation of, 127 observations on, 126-127 recent studies on, 126

Pseudoporphyria, drug-induced, 443, 444, 538, 559 Pseudoscleroderma, Borrelia burgdorferirelated, 331 Psoralens, 325 Psoriasis, pustular, drug-induced, 542 Purpura, Henoch-Schonlein, paraneoplastic, 181 Pustular drug reactions, 541-543 follicular and acneiform, 541-542 halogenoderma, 542 psoriasis/Reiter syndrome, 542 PUVA, for cutaneous lymphoma, 325 Pyoderma, in domestic animals, 203 deep, 204 fold (intertrigo), 203 nasal, 203-204 Pyoderma gangrenosum, 8f, 129-133 clinical manifestations of, 129-130 diagnosis and evalutation of, 132 etiology and pathogenesis of, 132 histology of, 130 history of, 129 and malignancy, 130-132 treatment of, 132 Pyrimethamine, ocular cicatricial pemphigus induced by, 523 Pyrithione, for seborrheic dermatitis, 249 Pyrizine derivatives, pemphigus from, 442t Pyrrolnitrin, contact dermatitis from, 469 403 atopic dermititis, 235-242

Radiologic findings, in Lyme arthritis, Red face, 192f-196f causes of, 315-318 chronic actinic dermatitis, 297-305 contact and photocontact dermatitis, 289-295 cutaneous lymphoma-related, 319-328 dermatomyositis-related, 261-273 in domestic animals, 203-210. See also Veterinary dermatology erysipelas, 307-313 flushing disorders, 211-223 historical considerations, 197-201 illustrations, 201 nomenclature, 197-198 older writings, 198 on pathogenesis of, 199-201 recent stories, 198-199 lupus erythematosus-related, 253-260 photogenodermatoses, 275-281 physical erythemas, 283-288 rosacea, 225-234 seborrheic dermatitis, 243-251 Reflex sympathetic dystrophy, bullous pehphigoid and, 517 Reiter's syndrome, 193f drug-induced, 542

Reptilian hosts, for Ixodes ricinus and Ixodes persulcatus, 347t Re-PUVA, for cutaneous lymphoma, 325 Restautant flushing reactions, 217-218 Reticulohistiocytosis, multicentric, 7f, 107-111 associated malignancy, 108-109 clinical manifestations of, 10 differential diagnosis, 109-110 histopathology of, 108 laboratory findings in, 109 treatment of, 110 Reticulosis, Pagetoid, 322 Retinoids, for cutaneous lymphoma, 325 Rheumatoid arthritis, drug-induced toxicity in, HLA-associated, 452-Rhipicephalus, 336 Rickettsia rickettsii, 336, 337 Rifampicin, porphyria cutanea tarda induced by, 537 Rifampin, red face from, 316-317 Ro antibodies, in facial lupus erythematosus lesions, 257-258 Rosacea, 192f, 220, 225-234, 256t association with internal diseases, 226 clinical features of, 225-226 differential diagnosis, 226-227 etiopathogenesis of, 227-228 histopathology of, 226 treatment of, 229-230 Scabicides, allergy to, 473t canine (sarcoptic mange), 204 feline (notoedric mange), 204 Scalded skin syndrome, 553 staphylococcal, 491 Scleroderma, 194f Sclerosis Borrelia burgdorferi-related, 334f, 364-366 associated with acrodermatitis chronica atrophicans, 389 morphea and lichen sclerosus et atrophicus, 365 in patients with acrodermatitis chronica atrophicans, 364-365 systemic, chemical- and drug-induced, Seasonal variation, atopic dermatitis associated with, 240

Seborrheic dermatitis, 243-251

differential, 245-246

etiopathogenesis, 246-248

of the face, 193f, 243-245

diagnosis, 245

epidemiology, 243

histopathology, 245

treatment of, 248-249

Seborrheic keratosis, sign of Leser-Trélat and. See Sign of Leser-Trélat Selenium sulfide, for seborrheic dermatitis, 248, 249 Serine proteases, 509 Serologic tests, in erysipelas, 309 Sézary syndrome, 321 Shulman's syndrome, 403, 404 Sign of Leser-Trélat, 141-148 associated malignancies, 144, 144t clinical manifestations of, 141, 144 differential diagnosis, 145 histopathology of, 144 history of, 141 incidence of, 141 laboratory findings in, 144-145 pathogenesis of, 145-146 recommended evaluation, 146 summary of case reports, 142t-143t treatment of, 145 Silver staining techniques, for Borrelia burgdorferi, 378-379, 380-381 Solar dermatitis, in domestic animals, 209 Solid tumors, pyoderma gangrenosum associated with, 131-132 Spongiosis, eosinphilic, 558, 560f Spongiotic eruptions, drug-induced, in animals, 572 Staphylococcal scalded skin syndrome, Stevens-Johnson syndrome drug-induced in children, 553-554 diagnosis of, histopathologic criteria for, 557, 558 drugs causing, 442t, 443 immunogenetics of, 455 oral, 546, 546t, 547f epidemiology of, 442 red face related to, 316 Stomatitis medicamentosa, oral, 546t, 547, 548f Streptococcal infection, in erysipelas, 309, 310, 311, 312 Streptococcus pyogenes, 307, 309 Strokelike disorders, in Lyme borreliosis, Subepidermal diseases, bullous, druginduced, 558, 561 in animals, 570-571, 571f Sulfadiazine, 572 Sulfadoxine, ocular cicatricial pemphigus induced by, 523 Sulfhydril drugs. See also Thiol drugs pemphigus from, 501, 502, 503 Sulfonamide contact dermatitis from, 468 erythema multiforme from, 482 toxic epidermal necrolysis from, 496 Sun sensitivity, photogenodermatoses, 275-281 Sunburn, 286

"Sunburn cells," 557 Superantigens, in Lyme borreliosis, 416 Surgery, for glucagonoma syndrome, 95 Sweating, atopic dermatitis associated with, 240 Sweet's syndrome, 9f, 149-157 associated malignancies, 150-151, 152, clinical manifestations of, 150, 151t diagnosis and differential diagnosis, 152, 154t histopathology of, 150 history of, 149-150 incidence of, 150 laboratory findings in, 152 pathogenesis of, 153, 154-155 recommended evaluation, 155, 155t treatment of, 153-154 Synovial fluid analysis, in Lyme arthritis, 402, 403 Synthetases, antibodies to, in dermatomyositis, 267 Syphilis, in acrodermatitis chronica atrophicans, 373 lymphoma, 326

Systemic chemotherapy, for cutaneous T-cell in bullous drug eruptions, 451 cicatricial pemphigus induced and, 524, 525 in cutaneous lymphomas, 323-324 in erythema multiforme, 486 in Lyme borreliosis, 416 proliferation assays, Borrelia burgdorferi-specific, 411 in toxic epidermal necrolysis, 497 T-cell leukemia/lymphoma, cutaneous, 322, 323 treatment of, 325-326 Telangiectasia, 256t in acrodermatitis chronica atrophicans, 390, 391 facial, of dwarfs, 279. See also Bloom's syndrome periungual, in dermatomyositis, 6f, 263, 263f Temperature changes, erythema caused by, 284-285 Temporal arteritis, paraneoplastic, 180 Tetracyclines for Lyme borreliosis, 424 pseudoporphyria induced by, 538

for rosacea, 230, 231

Thiol drugs. See also Sulfhydril drugs acantholysis provoked by, 507-509, 511 pemphigus from, 444t, 501, 502t

Thiopronine, acantholysis induced by, 510f, 510

Thrombocytopenia, pyoderma gangrenosum associated with, 131 Thromboembolism. See Thrombophlebitis and thrombembolic problems of malignancy Thrombophlebitis and thromboembolic problems of malignancy, 10f, 159-163 clinical findings in, 160 diagnosis of, 160-161 pathogenesis of, 159-160 superficial migratory, with pancreatic cancer, 9f treatment of, 161-162 Tick vectors for Borrelia burgdorferi, 343, 348. See also specific genus Topical medications contact dermatitis from. See Contact dermatitis, medicament for cutaneous lymphoma, 325 erythema multiforme from, 443, 482 Toxic epidermal necrolysis, druginduced, 443, 443t, 493-500 in animals, 570, 571f in children, 551, 552-553 clinical pattern of, 494 diagnosis of, histopathologic criteria for, 557 epidemiology of, 442, 495-496 exanthematic necrolysis, 492 fixed, 492 immunogenetics of, 455

treatment of, 497-498
Toxic substances, seborrheic dermatitis related to, 247
Tranquilizers, fixed ruptions from, 444t
Transdermal drug delivery systems, allergy and, 473
Transpeptidases, epidermal, 510
Trauma, red face from, 195f
Tretinoin, red face from, 316
Trimethoprim-sulfadiazine, 572
Tripe palms. See Palms, tripe

laboratory examinations in, 494-495

prognosis and complications of, 497

separation from erythema multiforme,

oral, 546t. 546, 547, 547f

pathogenesis of, 496-497

overview of, 491-492

Trombiculidiasis, 205 Trousseau's syndrome, 10f

U

Ultraviolet radiation
chronic actinic dermatitis related to,
301
erythema caused by, 286-287
Uroporphyrin, 537
Uroporphyrinogen, 537
Urticaria
cold, 286
drug-induced, in animals, 567-568

drug-induced, in animals, 567-568 Vacuoles, in acrodermatitis chronica atrophicans, 390, 391 Vancomycin, linear IgA disease induced by, 531, 531f, 532 Vasculitis, 175-187 in acrodermatitis chronica atrophicans, associated malignancy, 177-181 cancer therapy and, 183 classification and nomenclature for, 175-177 in dermatomyositis, 264 histopathology of, 181-182 history of, 175 incidence of, 177, 177t lesions mimicking, 182-183 Lyme, immunopathologic mechanisms in, 417 pathogenesis of, 182 Vasculopathies, drug-associated, in animals, 572 Vasodilator flushing, circulating, 216-217 Vegetative syndromes, in Baanwarth's syndrome, 394 Vehicle constituents, allergy to, 472-473 Vesiculobullous drug eruptions in children, 551-554 erythema multiforme and Stevens-Johnson syndrome, 544f, 553-554 fixed drug eruptions, 551 pemphigus, 544, 555 toxic epidermal necrolysis (Lyell's syndrome), 551-553

dermatopathologic approach to diagnosis, 557-565 histopathologic criteria for, 557-558, immunoelectron microscopy, 561-562, 563f immunofluorescence techniques, 559, 560-561 immunopathologic criteria for, 558monoclonal antibody immunolabeling, 562, 563, 564 Veterinary dermatology cutaneous paraneoplastic syndromes metabolic necrolytic dermatitis, 15nodular dermatofibrosis, 17 red face in domestic animals, 203-210 bacterial diseases, 203-204 congenital and hereditary defects, 208-209 environmental diseases, 209 fungal diseases, 205 immunologic diseases, 205-208 juvenile cellulitis, 209 necrolytic migratory erythema (hepatocutaneous syndrome), 209 nutritional diseases, 209 parasitic diseases, 204-205 Viral antigens, in erythema multiforme,

W

Western blot in Lyme serology, 409-410 Woringer-Kolopp disease, 323

X

X-rays
erythema caused by, 286

Xeroderma pigmentosum, 194f, 275-279
clinical findings in, 275-277
complementation groups in, 278
genetic factors and epidemiology, 277278
treatment of, 278-279

XP genes, in xeroderma pigmentosum,
277, 278

Z Zinc-responsive dermatosis, 209